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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/044,969	01/15/2002	Yousuke Moriuchi	026575-065	2991	
7590 04/30/2004			EXAMINER		
Platon N. Mandros			PANTUCK, BRADFORD C		
BURNS, DOAN	NE, SWECKER & MAT	HIS, L.L.P.			
P.O. Box 1404			ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			3731		

DATE MAILED: 04/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)				
<b>0</b> (r)		10/04	4,969	MORIUCHI ET AL.				
Office	Action Summary	Exam	iner	Art Unit				
			ord C Pantuck	3731				
The MAIL Period for Reply	ING DATE of this commun	ication appears or	the cover she t with th	correspondence add	ress			
THE MAILING D  - Extensions of time m after SIX (6) MONTH  - If the period for reply  - If NO period for reply  - Failure to reply within Any reply received by	ATE OF THIS COMMUN ay be available under the provisions S from the mailing date of this comr specified above is less than thirty (3 is specified above, the maximum states the set or extended period for reply	ICATION. s of 37 CFR 1.136(a). In Innunication. do days, a reply within the autory period will apply a will, by statute, cause the	T TO EXPIRE 3 MONTH no event, however, may a reply be tile statutory minimum of thirty (30) daind will expire SIX (6) MONTHS from a application to become ABANDONI his communication, even if timely file	mely filed ys will be considered timely. n the mailing date of this com ED (35 U.S.C. § 133).	nmunication.			
Status		•						
1)⊠ Responsiv	e to communication(s) file	ed on <i>April 7. 200</i> 4	<b>4</b> .					
2a) This action		2b)⊠ This action						
3) Since this		•	cept for formal matters, pr	osecution as to the	merits is			
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Clair	ns							
4a) Of the a 5) ☐ Claim(s) _ 6) ☑ Claim(s) <u>1</u> 7) ☐ Claim(s) _	-15 is/are pending in the above claim(s) 8-15 is/are is/are allowed7 is/are rejected. is/are objected to. are subject to restrict.	withdrawn from o						
Application Papers								
10)⊠ The drawin Applicant m Replaceme	ay not request that any objent drawing sheet(s) including	2002 is/are: a)⊠ ection to the drawing g the correction is re	accepted or b) objecter (s) be held in abeyance. Se equired if the drawing(s) is ol . Note the attached Office	ee 37 CFR 1.85(a). bjected to. See 37 CFF	R 1.121(d).			
Priority under 35 U	S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
	son's Patent Drawing Review (I sure Statement(s) (PTO-1449 or		4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other: IDS 01/13/0	Date Patent Application (PTO-	152)			

#### Election/Restrictions

1. Applicant's election with traverse of Species I in Paper No. 03-26-2004 is acknowledged. The traversal is on the ground(s) that both inventions can be searched without a tremendous burden. This is not found persuasive because the stent structure classification subclass is an extremely crowded area, in which a seemingly small structural difference differentiates over the prior art.

The requirement is still deemed proper and is therefore made FINAL.

Claims 8-15 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 03-26-2004.

### Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. For example, Applicant could say that the title is: "Stent with waved connecting ridges."

#### Claim Objections

4. Claim 1 is objected to because of the following informalities: In line 16 "waved element" should be "waved elements". Appropriate correction is required.

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# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 2, and 4-7 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,183,506 B1 to Penn et al. Regarding Claim 1, Penn discloses a tubular stent, which is capable of expansion [Column 1, line 6]. The stent has a plurality of annular expanding members, each formed of a wave element [Fig. 10]. Penn also discloses a plurality of waved connecting members (936 or 971) connecting ridges and/or bottoms. There is no phase difference between the waves of adjacent annular expanding members. Furthermore, one of the waves of each waved connecting member (971) has a larger amplitude than the other wave, as is evident from Fig. 10 and described in Column 10, lines 50-52.
- 6. Regarding Claim 2, the ridges of adjacent annular expanding members are connected by waved connecting members and the bottoms of adjacent annular expanding members are connected by waved connecting members. In other words, waved connecting member (971) alone connects either a ridge to a ridge or a bottom to a bottom—depending on one's perspective.
- 7. Regarding Claim 4, Penn discloses a stent with waved connecting members having a thickness of anywhere between 0.00381 mm and 0.1143 mm [Column 11,

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line 66 to Column 12 line 10]. Although the "polygon" that Penn refers to is in seemingly direct reference to the waved connecting members/annular expanding members of Fig. 1A, it can be assumed that these same components of Fig. 10 will have a similar range of thickness. Furthermore, because the Patent and Trademark Office does not have the testing facilities to provide factual evidence needed to establish that the claimed subject matter is not anticipated or unobvious, the examiner properly shifts the burden to applicants to show unanticipated or unobvious differences exist, Ex parte Phillips, 28 USPQ 1302 (Bd Pat App & Inter, 4/27/93).

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- 8. Regarding Claim 5, Penn discloses a largest wave of a waved connecting member (971) that is larger than the width of the ridge or bottom of the waved element, as can be seen in Attachment #1. Applicant does not specify which aspect of the largest wave member is larger than the width of the ridge. Penn discloses a largest wave member, in which one dimension (length) is larger than the width of the ridge, as shown in Attachment #1.
- 9. Regarding Claim 6, the length of the waved connecting member is 1.3 times as much as the straight distance between ridges of the waved elements of adjacent annular expanding members, as measured in Fig. 10 using a string. Further, "strut" 970 (equivalent to Applicant's "waved connecting member") is said to be up to 35% longer than the distance between the two ridges of the adjacent annular expanding members [Column 5, lines 57-62].
- 10. Regarding Claim 7, when the drawings of Applicant are superimposed on the drawings of Penn, the clearance width between adjacent annular expanding members

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is identical. Although this does not prove with absolute certainty that this distance is necessarily between 0.4 mm and 0.8 mm it does prove that the proportions of Penn are the same as the proportions of Applicant's invention. Furthermore, because Penn's invention is intended for use in the same part of the body as Applicant's invention (arteries/veins) this strongly suggests that the two stents would be largely the same size and thus have the same size in addition to the same proportions. Finally, because the Patent and Trademark Office does not have the testing facilities to provide factual evidence needed to establish that the claimed subject matter is not anticipated or unobvious, the examiner properly shifts the burden to applicants to show unanticipated or unobvious differences exist, Ex parte Phillips, 28 USPQ 1302 (Bd Pat App & Inter, 4/27/93).

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by

  Publication No. WO 99/36002 to Vardi et al. Regarding Claim 1, Figure 10 shows an

  expanding stent with waved connecting members (114) having waves with varying

  amplitudes and the other features claimed by the Applicant.
- 12. Regarding Claim 3, upon visual inspection of the proportions shown in Figure 10, the width of each waved connecting member (114) is less than half the thickness of the waved elements of the annular expanding members. Further, because the Patent and Trademark Office does not have the testing facilities to provide factual evidence needed to establish that the claimed subject matter is not anticipated or unobvious, the

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examiner properly shifts the burden to applicants to show *unanticipated* or unobvious differences exist, Ex parte Phillips, 28 USPQ 1302 (Bd Pat App & Inter, 4/27/93).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradford C Pantuck whose telephone number is (703) 305-8621. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J Milano can be reached on (703) 308-2496. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Milano

Supervisory Patent Examiner

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BCP April 26, 2004